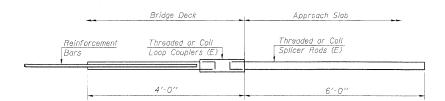
Stage Construction Line

Threaded or Coil Splicer Rods (E)

<u>"A "</u>

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



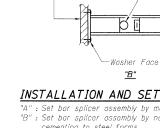
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #5	5 bar		
Min.	Capacity	= 23.0	kips -	tensic	n	
Min.	Pull-out	Strength	= 12	3 kips	_	tension

DESIGNED MFB CHECKED CHECKED KWS

BSD-1

10-1-08

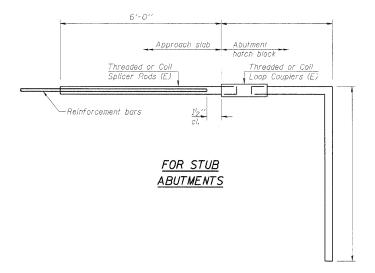


Template Bolt

Forms -

<u>"B"</u> INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Bar Splicer for #5 bar		
Min.	Capacity = 23.0 kips - tension	
Min.	Pull-out Strength = 12.3 kips - tension	

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or colled full length.

All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

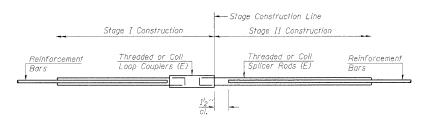
Minimum Capacity

(Tension in kips) = 1.25 x fy x A₁

(Minimum *Pull-out Strength (Tension in kips) = 0.66 x fy x A₁

Where fy = Yield strength of lapped related to sin ksi. A, = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5″	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7′-3′′	95.0	50.3		
#11	9'-0''	117,4	61.8		



STANDARD

Bar Size	No. Assemblies Required	Location
#5	32	Deck
#7	40	Deck

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0101

benesch alfred benesch & company Engineers · Surveyors · Planners Cho North Michigan Avenue, Sulte 2400 Chicago, Illimois 60801 3712-685-0480 Job No. 10050

SHEET 9 S

ET NO. 9	F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	²⁹⁰ 355 22(1, 1-1, 2&3)RS-7	DUPAGE	546	289
SHEETS		CONTRACT	NO. 60	G51
	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT		